

METHOD AND SYSTEM FOR ENERGY CONSERVATION IN IMPLANTABLE
STIMULATION DEVICES

ABSTRACT

5 The invention relates to a stimulation device with power
conservation functionality. In implantable devices, power
supplies may be limited. Replenishing these power supplies may
require costly surgery or periodic recharging depending on the
model. A method may be implemented that skips or drops periodic
10 pulses without apparently changing the frequency of the pulses.
In this manner, the dropped pulses may be undetected by the
patient. On the other hand, the dropped pulse represents power
savings. Dropping one in ten pulses may lead to a 10% energy
savings. The stimulation device may implement the method with
15 one or more counters implemented in hardware or software.